

5 **PROTECTIVE SHROUD FOR FCC FEED NOZZLES**
 AND METHOD FOR DESIGNING SUCH SHROUD

ABSTRACT OF THE DISCLOSURE

10 A protective shield for protecting a feed nozzle
encloses, not only the circumference of the feed nozzle,
but also encloses and protects the end of the feed
nozzle. The protective shield includes an open portion
in its end which corresponds to, and surrounds the slit
15 in the end of the feed nozzle. Optimal shape of the open
portion is determined by spray visualization tests.